

AMXD[®]

Advanced Mission Extender Device

User & Maintenance Guide



TACTICAL SUPPORT SYSTEMS[®]

WARRANTY

Omni warrants its system to the original purchaser, against defects in material and workmanship for a period of one year from the date of original purchase and will at our option, replace or repair defective parts without charge. Omni will, replace or repair any part found to be defective upon inspection by Omni. The purchaser will be responsible for freight to Omni. Omni will be responsible for freight, via UPS Ground, to purchaser after repairs. This warranty does not apply in the event of misuse or abuse or failure by the user to maintain the system in accordance with Omni instructions or as a result of unauthorized alterations or repairs. Damage occurring during transit is not covered by this warranty. No other warranty expressed or implied shall apply and in no event shall Omni be liable for consequential economic damage or consequential damage to property.

OMSI DISCLAIMER

Buyer assumes all risk and liability whatsoever from the installation and use of Omni products. Omni products are sold as bodily fluid collection and storage devices in a seated position and should not be relied upon as protection from bodily fluids exposure to the body, clothing or other items such as flight deck equipment. Omni assumes no liability for injury, loss, incidental or consequential damages in the event of an accident.

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Conventions Used in this Guide

16 ①6

IMPORTANT OR YELLOW TEXT

All instructions will be labeled with a large number, the illustration which corresponds to that step will be labeled with a small number in a circle

Indicates an item of particular importance



Indicates a direction of travel



Indicates a connection between a caption to an illustration or photo



Indicates rotation



Indicates a disposable system component



Indicates a system component specific to female aircrew



Indicates a system component specific to male aircrew



Indicates a system component that is machine washable

Pre-Flight Checklist:

CONTROL UNIT:

- ☐ Does the control unit activate when the battery pack is connected?
- ☐ Does the control unit respond correctly when a bag and hose are plugged in?

BATTERY PACKS:

- ☐ Was the Rechargeable Battery Pack charged for one hour?

COLLECTION BAG:

- ☐ Is the collection bag showing signs of damage, heavy creasing, potential weak spots or punctures?
- ☐ Do you have enough of them?

PAD/CUP:

- ☐ Is it positioned correctly according to pages 18 & 19, 20 & 21?



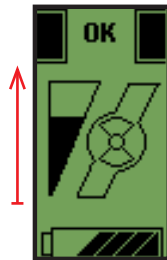
Battery connected,
ready to connect
Hose and Bag



Hose connected,
ready to connect
Bag



Bag connected,
ready to
connect Hose



Bag and Hose
connected, Cup
inflating



Ready to
urinate



Liquid pump
running



Replace
Battery Pack



Have Control
Unit Serviced

Components

The AMXD™ system utilizes a combination of disposable and non-disposable components.

A. Control Unit Part No. SCU-10



B. Rechargeable Battery Pack
Part No.SCU-RBP



C. Non-Rechargeable Battery Pack Part No. SCU-ABP



D. Power Unit Part No.
MWS122500UC



E. World Power Adaptors
Part No.
AMXD-OMSI-EUR
AMXD-OMSI-AUS
AMXD-OMSI-UK



F. Collection Bag
Part No.
CB-10 - 800ML
CB-12 - 1200ML
CB-16 - 1600ML



Components

The AMXD® system utilizes a combination of disposable and non-disposable components.

G. Female Pad F-15

Size 1 - Part No. IFP-15-1

Size 2 - Part No. IFP-15-2

Female Pad F-16

Size 1 - Part No. IFP-16-1

Size 2 - Part No. IFP-16-2



H. Male Cup

Size 2 - Part No. IMC-2

Size 3 - Part No. IMC-3



I. Female Undergarment
Size 1 - Part No. FG-1
Size 2 - Part No. FG-2



J. Male Undergarment
Boxer Style
Size 1 - Part No. MG-1-B
Size 2 - Part No. MG-2-B

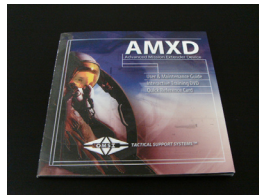


K. Male Undergarment
Brief Style
Size 1 - Part No. MG-1
Size 2 - Part No. MG-2



Components

- L.** Field Cleaner Output/Input Hose Kit
Part No. CCU-20
Part No. CCU-21



- M.** User & Maintenance Manual
Part No. UM_V3



- N.** Disinfecting Pack
Part No. SDG-20



- O.** Disinfectant Cleaner Kit
Part No. CCU-10

P. Control Unit Kit Part No. CSK



R. Female Pad Starter Kit
Aircraft 15 Part No. IFPSK-15
Aircraft 16 Part No. IFPSK-16



Q. Male Cup Starter Kit
Size 1 Part No. IMCSK-1
Size 2 Part No. IMCSK-2



The Control Unit & Collection Bag





The AMXD® Collection Bag is a DISPOSABLE system component. It is intended for a single use. On extended missions, more than one bag may be used.

The Collection Bag contains super absorbent polymers which gels liquid on contact. The standard bag is designed to hold 25 ounces (800) ml of liquid.

Connection Nozzle

(fits into the control unit in one direction)



Snap the bag open at the white adhesive holders

Male Cup & Undergarment Fitting & Sizing

For correct sizing of the Male Undergarment:

Choose Size 1 for waist size between 30"-34"

Choose Size 2 for waist size between 36"-40"

1 Prior to flight, locate the opening on the inside of the undergarment. Insert the cup into the undergarment through the velcro opening, ensuring that the white foam ring on the Cup is extending through the opening on the inside of the undergarment. The Foam Ring acts as a "button" and holds the cup and undergarment together as a functional unit.

2 Insert the male member through the white foam ring. Make sure the Cup hose is facing front and to the right. **When correctly worn, the foam ring will be snug against the pelvis and the bottom of the cup should not be folded or pinched.**

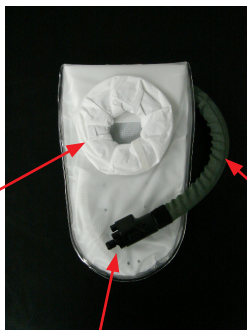
3 Attach the Cup/Pad hose Velcro end to the Velcro patch on the front of the undergarment or keep the hose external to each suit except just under the first layer. Dispose of the Male Cup after your mission.

Important

Make sure the cup hose is just under the first layer of gear.

Foam Ring for
male member

Hose



Nozzle (connects to Control Unit)

①



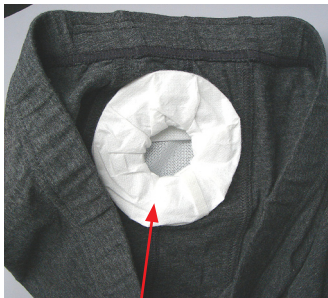
Opening inside the Undergarment

①



Velcro Opening for inserting Cup

②



Foam Ring of the Cup extending through the Undergarment.

③



Female Pad & Undergarment Fitting & Sizing

For correct sizing of the Female Undergarment:

Choose Size 1 for sizes normally 6 and below.

Choose Size 2 for sizes normally 7 and above.

1

Prior to flight, locate the blue pick-up hole in the Pad. **Make sure when seated in the ejection seat, the blue hole is located at the lowest point. This is crucial for the AMXD® System to function properly. It is very important that this be determined and tested on the ground, prior to flight.**

2

Place the Pad into the undergarment with the hose in the front and to the right. Use the adhesive strip located on the underside of the Pad. Attach the Cup/Pad hose Velcro end to the Velcro patch on the front of the undergarment or keep the hose external to each suit except just under the first layer.

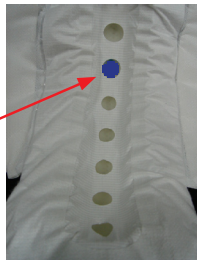
3

The Pad's inflatable collection area should completely cover the gluteal fold in the back, and extend forward of the female anatomy, just below the bikini line. Wings should hang down on both sides and the undergarment should hold the pad snugly against the body. Dispose of the Female Pad after your mission.

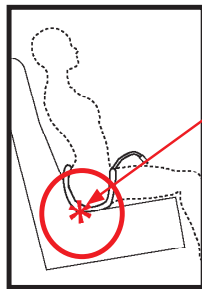
Important

Make sure the pad hose is just under the first layer of gear.

1

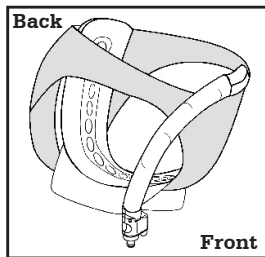
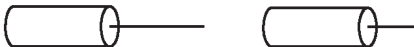
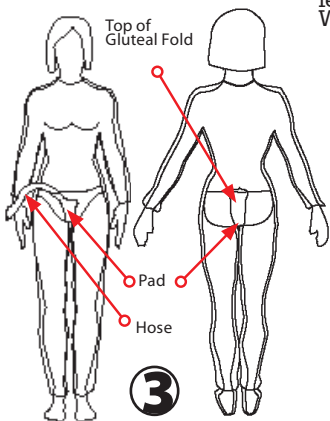


Blue Pick-up Hole



The Blue Pick-up Hole **MUST BE** located at the lowest point in the ejection seat.

To use the AMXD® system during menstruation, female aircrew should use a modified tampon WITH A SHORTENED EXTRACTION STRING.



Non-Rechargeable Battery Pack

INSTALLING THE AAA ALKALINE BATTERIES:

Remove the battery pack's cover by pushing your thumb down on the gray button towards the direction of the arrow and sliding it forward. Insert the AAA alkaline batteries according to the polarity guide on the battery pack.



Important

The AAA Alkaline Battery Pack will run for three 1-minute cycles before the batteries need to be replaced.



Cover Release



Power Contact

Attachment Guide

Rechargeable Battery Pack & World Power Kit

CHARGING THE RECHARGEABLE BATTERY PACK:

The rechargeable battery pack requires an initial 1 hour charge in the charger unit prior to use in flight. Plug the charger into a wall outlet and the charger output connector into the control unit. This can be done with or without the cleaner base in place. After approximately 400 charge cycles, the display screen "service battery" will indicate it is time to replace the Rechargeable Battery Pack.



Important

The Rechargeable Battery Pack will run for twelve 1-minute cycles before needing to be recharged.



WORLD POWER KIT:

Three international adaptors are provided to accommodate overseas power outlets (Australian, European & Britain).



**100%
charge**



**50%
charge**



**Low Battery
replace or
recharge**

When a unit is left unused for approximately 10 minutes with a battery pack attached, it will enter 'sleep mode'. To reactivate, press the green pump activation button.

The control unit may also be powered by an optional 12v vehicle adapter.

Operating Instructions

1

When ready to urinate remove the cup/pad hose form just inside your top layer of gear.

2

Remove the control unit from your flight bag and place it on your left knee. *Click* the hose into the right end of the control unit labeled "Hose".

3

Remove and unfold the collection bag from your flight bag .*Click* the collection bag into the left end of the control unit labeled "Bag". When both ends are properly connected, the cup/pad will automatically begin to inflate.



Bag Input

③



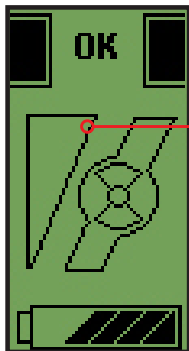
Hose

②

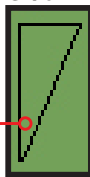
4

As the cup/pad begins to inflate, the display air graph triangle will fill black. Once filled, the system is ready for urination.

④



0%



50%



100%



5

Push and **HOLD** the green pump button. Begin to urinate. **The green button must be held during the entire time of urination.** The pump will draw urine from the cup/pad into the collection bag.



⑤

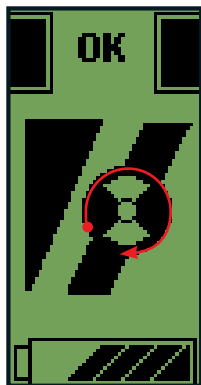
Green Pump Activation Button

Operating Instructions

6

As liquid is pumped into the bag, the liquid pump symbol will turn black and the center symbol will rotate. After urination is complete, release the green pump activation button. The pump will continue to run for an additional 20 seconds, clearing the tubes.

6

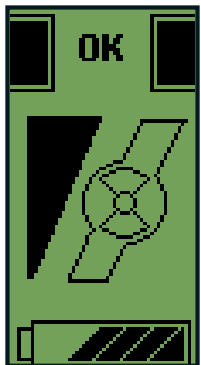


**DO NOT DISCONNECT ANYTHING UNTIL
THE PUMP STOPS RUNNING.**

7

When the liquid pump symbol stops rotating and becomes clear, this will indicate the pump has stopped.

7



8

Unplug the collection bag from the control unit by pressing the Bag Release Button.

9

Unplug the cup/pad hose from the control unit by pressing the Cup/Pad Release Button. The cup/pad will automatically deflate. **You will also notice that there could be a small amount of some residual urine in the cup or pad, but this is normal.**



10

Stow away the Control Unit and Collection Bag. Be sure the cup/pad hose is tucked or secured.

Bag Release

Cup/Pad Hose Release

8



9

Maintenance & Cleaning the Control Unit

Maintenance

The AMXD® Control Unit is impact resistant. In the event of a fall greater than 2 feet onto a hard surface the Control Unit's functions should be verified as being in working order. It is also important to ensure that the input connectors are undamaged and functioning properly.

Do not allow liquid to freeze inside the Control Unit. Always be sure the pump is allowed to run long enough to fully clear any residual fluid from the Control Unit.

NEVER attach the battery pack while the Control Unit is submerged. NEVER submerge the control unit.

NEVER sterilize the Control Unit with microwaves or with steam-based cleaning systems.

After Flight

- Is the Battery Pack disconnected from the Control Unit?
- Has Collection Bag(s) & Pad/Cup been properly disposed of?
- Is the Control Unit in need of cleaning, both internally or externally?
- Has the Battery Pack been recharged ? AAA batteries been replaced?
- Is the Control Unit properly stored? Free of residual fluids?

Cleaning the Control Unit:

2 Options

The AMXD® Control Unit is a vital system component because it will be exposed to a variety of environments and conditions (including combat). It should be cleaned and checked regularly. If stored for an extended period of time, it is important that the device be occasionally powered up and functions checked. Additionally, connection inputs should be exercised by actually connecting a pad/cup hose and a collection bag.

The AMXD® Control Unit is water resistant, **NOT WATER PROOF**, NEVER submerge the control unit. In the event it is completely submerged, it must be returned to OMSI for recertification before use.

NEVER clean with bleach. This applies to the internal plumbing, and the exterior case. A commercial anti-bacterial cleaner may be used on the exterior.

If the Disinfectant Pack is unavailable, and the internal plumbing needs cleaning, a weak 10 to 1 solution (10 parts water and 1 part anti-bacterial agent) may be used.

NEVER clean the control unit with dish/laundry detergent, alcohol, or petroleum based solvents.

Cleaning the Control Unit - 2 Options

Option 1:

Disinfectant Cleaner Kit & Pack

- 1 Slide the Cleaner Base into left side of the control unit and the Disinfectant Input Adapter into the right of the control unit.
- 2 Pour the contents of the Disinfectant Pack into the Disinfectant Input Adapter.
- 3 Press the green activation button. This runs the cleaning cycle for 20 seconds.
- 4 When the cleaning cycle is complete, be sure to drain the used cleaning fluid from the Cleaner Base.



Option 2:

Field Cleaner Input/Output Hoses

- 1 After attaching a battery pack, attach input cleaner hose in the same manner as the cup/pad hose. Then, attach the cleaner output hose in the same manner as the collection bag.
- 2 Open the Disinfectant Pack, and pour the contents into a bucket of warm soapy water. Place the end of the hose attached to cup/hose input into the container of warm soapy water. An empty bucket is recommended to capture the water pumped through the control unit.
- 3 Press the green pump activation button allowing water to pump for 3 minutes. Place the end of the hose attached to cup/pad hose input into the container of clean water.
- 4 To clean the outer casing of the control unit use a washcloth and warm soapy water.



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Omni Medical Systems, Inc. - 115 Catamount Drive - Milton, Vermont 05468
www.omnimedicalsys.com - Toll Free Phone: 1 . 888 . 799 . AMXD (2693)